## Low-pressure, Hot-Water Flushing

Objective: To remove non-liquid/non-fluid oil that has adhered to the substrate or man-made struc-

tures, or pooled on the surface.

Description: Hot water (90°F [32°C] up to 171°F [77°C]) is sprayed with hoses at low pressures (<10 psi

[<72 kpa]) to liquefy and lift oil from the substrate and float it to the water's edge for

recovery by skimmers, vacuums, or sorbents. Used with flooding to prevent released oil from

re-adhering to the substrate.

Applicable Habitat Types: On bedrock, sand to gravel substrates, and man-made structures.

When to Use: Where heavy, but relatively fresh, oil is stranded onshore. The oil must be heated above its

pour point so it will flow. Less effective on sticky oils.

Biological Constraints: Avoid wetlands or rich intertidal communities so that the hot oil/water effluent does not

contact sensitive habitats. Operations from boats will help reduce foot traffic in soft substrates and vegetation. Flushed oil must be recovered to prevent further oiling of adjacent

areas. Should not be used directly on attached algae or in rich, intertidal areas.

Environmental Effects: Hot water contact can kill attached animals and plants. If containment methods are not

sufficient, oil may be flushed into adjacent areas. Flooding may cause sediment loss and erosion of the shoreline and shallow rooted vegetation. Some trampling of substrate and

biota will occur.

Waste Generation: Depends on the effectiveness of the collection method.